	Gas on Gas	Air on Air	Gas on Waste Gas	Air on Waste Gas
Frictional resistance in checkers:	2560	4267 5		
co = total area of passes m^2	11 664	19 440		
$L ~i~ w =	219 5	219 5		
v_t = velocity m per sec	1 879	1 642	2 405	1 964
A0 = specific weigh *"< gases	1 125	1 293	1 320	1 320
$t°$ =s average temperature	850°	750°	1200°	1100°
1 -l-<t ==gas factor for $t°$ =	4	3	5	5
Aj = Ao-J-(l+aO = ...	0.273	0	0	0
y=kg per m^2 friction loss	1 kg			
X =0.016X219.5X	802			
0.016X219.5X1.642X0.34		1 kg		
0.016X219.5X2.405X0.24			2 kg	
0.016X219.5XL964X0.262				1 kg

As the gases enter and leave the checkerwork they make a 90° change in their direction of flow, which is equivalent to a total absorption of their velocity head. The pressure necessary to impress upon the flowing gases their velocity in the checkers will be:

	Gas on Gas	Air on Air	Gas on Waste Gas	Air on Waste Ga
$h = v_t$-r- $2g$~ meters of gas	0.180	0.137	0.295	0.197
5 == h&t — kg per m^2 =	0 .40	0.047	0.073	0.053